

# MEMC



## MEMC SILVANTIS™ M250 MODULE

MEMC is a recognized authority on silicon technology and manufacturing processes developed through more than 50 years of experience. With our vertically-integrated business model, MEMC delivers best-in-class solar modules by continuously leveraging new technology and manufacturing techniques that maximize efficiency, minimize cost, and extend product lifetime. Our solar module factory is ISO 14001 certified, and our products undergo rigorous inspection to ensure the highest possible quality.

MEMC Silvantis solar module family continues our tradition of excellence by delivering the highest levels of performance and with over 40 locations worldwide, MEMC is dedicated to providing local, responsive customer service.



### HIGH EFFICIENCY

MEMC modules are designed to the highest industry standards of efficiency.



### QUALITY

Manufactured in highly automated, state-of-the-art facilities certified to ISO9001 and ISO14001.



### MONO-CRYSTALLINE DESIGN

Mono-crystalline wafers provide high efficiency and consistent high quality.

### KEY FEATURES

- Mono-crystalline cells for higher conversion efficiency
- Textured glass with Anti-Reflective Coating (ARC) for higher energy production
- Positive power tolerance provides increased power output
- Withstands loads up to 5400 Pa as tested to IEC standards
- Non-corroding anodized aluminum frame for ruggedness
- Modules with a range of power output available
- Comes with linear warranty

### MODULE FAMILY

MEMC-M245AMC, MEMC-M250AMC,  
MEMC-M255AMC, MEMC-M260AMC

### QUALITY & SAFETY

- IEC61215 certified by T V S D to ensure long-term operation in a variety of climates
- IEC61730 certified by T V S D to ensure electrical safety
- MCS certified by BABT for the UK
- Stringent outgoing quality acceptance criteria benchmarked to industry standards
- UL1703 listed by CSA for Canada and US
- Test to conform to UL1703 and CE standards

### WARRANTY INFORMATION

- 10-year limited warranty for materials and workmanship
- 25-year linear power warranty with coverage for power loss greater than 3.5% in the first year and 0.7% degradation per year thereafter
- Backed by MEMC



For more information about MEMC SILVANTIS™ Modules, please visit [www.sunedison.com](http://www.sunedison.com)

## M250 SOLAR MODULE DIMENSIONS mm[inch]

### Module Dimensions

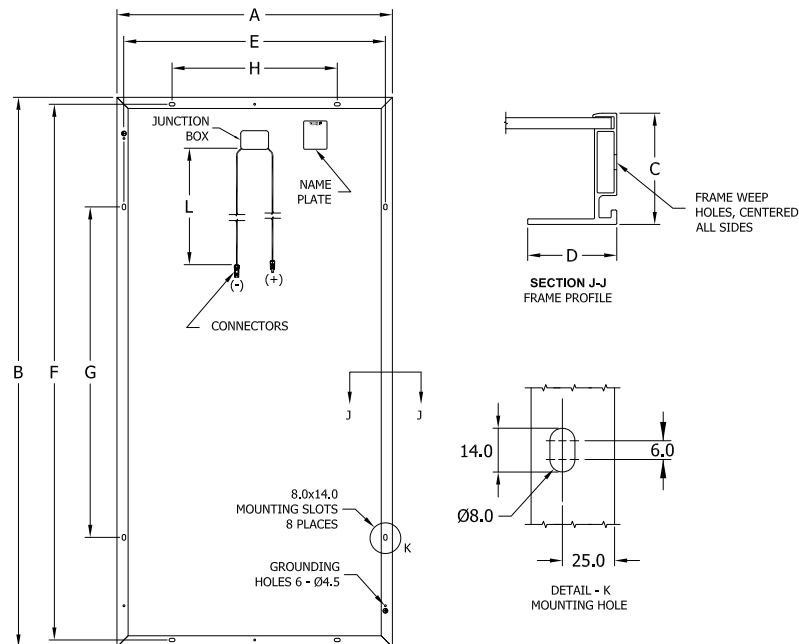
- A – 990 [39.0]
- B – 1,658 [65.3]
- C – 50 [2.0]
- D – 40 [1.6]

### Mounting Hole Spacing

- E – 940 [37.0]
- F – 1,608 [63.3]
- G – 994 [39.1]
- H – 594 [23.4]

### Cable Length

- L – 1,000 [39.4]



## PHYSICAL PARAMETERS

Module Dimensions (mm)	1,658 x 990 x 50
Module Weight (kg)	19.0
Cell-Type	Mono-crystalline
Number of Cells	60
Frame Material	Anodized Aluminum
Glass (mm)	3.2 Tempered ARC Glass

## TEMPERATURE COEFFICIENTS AND PARAMETERS

Nominal Operating Cell Temperature (NOCT) (°C)	46 ±2
Temperature Coefficient of P <sub>max</sub> (%/°C)	-0.49
Temperature Coefficient of V <sub>oc</sub> (%/°C)	-0.35
Temperature Coefficient of I <sub>sc</sub> (%/°C)	+0.055
Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	600 (UL) & 1000 (IEC)
Limiting Reverse Current (A)	8.40
Maximum Series Fuse Rating (A)	15
Power Range (W)	-0/+5

Temperature coefficients may vary by ±10%

## ELECTRICAL CHARACTERISTICS

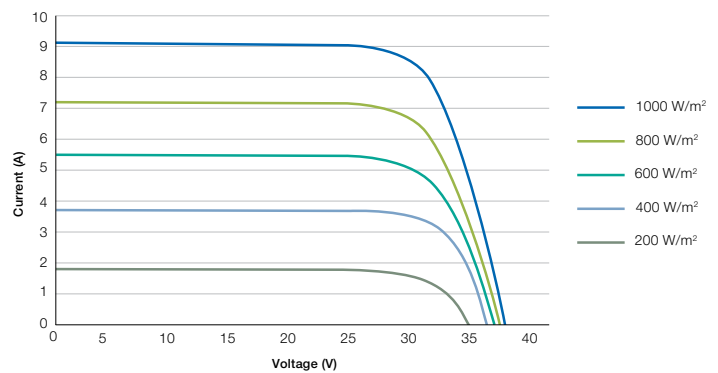
Model #	MEMC-M245AMC	MEMC-M250AMC	MEMC-M255AMC	MEMC-M260AMC
Rated Maximum Power P <sub>max</sub> (W)	245	250	255	260
Open-Circuit Voltage V <sub>oc</sub> (V)	37.7	37.8	37.9	40.0
Short Circuit Current I <sub>sc</sub> (A)	8.90	9.00	9.10	9.20
Module Efficiency (%)	14.9	15.2	15.5	15.8
Maximum Power Point Voltage V <sub>mpp</sub> (V)	29.2	29.4	29.6	29.8
Maximum Power Point Current I <sub>mp</sub> (A)	8.47	8.57	8.67	8.77

All electrical data at STC: 1000W/m<sup>2</sup>, AM1.5, 25°C

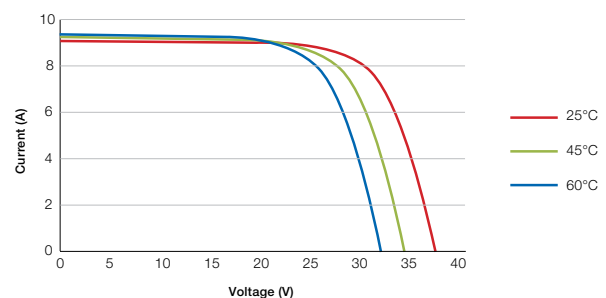
Electrical characteristics may vary by ±5% and power by -0/+5W

\* Listed specifications are subject to change without prior notice.

## IV CURVES AT MULTIPLE IRRADIANCES [25°C]



## IV CURVES AT MULTIPLE TEMPERATURES [1000 W/m²]



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